

12101104 WHITE RIVER ABOVE TACOMA AVENUE BRIDGE AT SUMNER, WA

WATER-QUALITY RECORDS

LOCATION.--Lat 47°13'01.9", long 122°14'08.5", in SW 1/4 SE 1/4 sec.13, T.20 N., R.4 E., Pierce County, Hydrologic Unit 17110014, on left bank, 0.1 mile upstream from Tacoma Avenue Bridge in Sumner, and at mile 1.8.

DRAINAGE AREA.--470 mi², approximately.

PERIOD OF RECORD.--August to September 2001 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August to September 2001 (discontinued).

pH: August to September 2001 (discontinued).

WATER TEMPERATURE: August to September 2001 (discontinued).

DISSOLVED OXYGEN: August to September 2001 (discontinued).

INSTRUMENTATION.--Water-quality monitor since August 2001. Electronic data logger with 30-minute logging interval.

REMARKS.--Interruption in record due to malfunction of the recording instrument. Specific conductance records excellent, except for Aug. 4-6 and 24-27, which are good. pH records excellent. Water temperature records good. Dissolved oxygen records good Aug. 1-5, 28-30, and Sept. 11-30; fair Aug. 26-27 and Sept. 4-10; and poor Aug. 6-19 and 24-25.

EXTREMES FOR PERIOD OF DAILY RECORD.--No previous record.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 98 uS/cm on Sept. 30, but may have been higher during periods of missing record;

minimum recorded, 58 uS/cm on Aug. 27, but may have been lower during periods of missing record.

pH: Maximum recorded, 7.6 on Sept. 30, but may have been higher during periods of missing record; minimum recorded, 6.8 on Aug. 27-30, Sept. 11, 16-17, and 20, but may have been lower during periods of missing record.

WATER TEMPERATURE: Maximum recorded, 20.4°C on Aug. 10, but may have been higher during periods of missing record; minimum recorded, 9.7°C on Sept. 28, but may have been lower during periods of missing record.

DISSOLVED OXYGEN: Maximum recorded, 11.2 mg/L Sept. 28, but may have been higher during periods of missing record; minimum recorded, 7.9 mg/L Aug. 12, but may have been lower during periods of missing record.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), AUGUST TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
AUGUST			SEPTEMBER			
1	82	80	81	---	---	---
2	80	71	77	---	---	---
3	80	72	76	---	---	---
4	82	78	81	94	85	88
5	81	76	79	94	63	79
6	82	77	79	97	61	82
7	83	80	81	96	64	83
8	81	73	76	96	64	87
9	78	70	73	93	88	90
10	76	70	73	91	65	82
11	76	72	74	90	84	86
12	75	70	72	85	63	76
13	73	70	72	86	63	72
14	73	69	71	88	63	79
15	73	70	71	83	80	82
16	73	70	71	80	62	73
17	73	70	72	88	62	77
18	72	69	71	90	64	79
19	72	69	70	92	86	89
20	---	---	---	91	65	77
21	---	---	---	96	74	91
22	---	---	---	96	91	93
23	---	---	---	94	89	90
24	88	64	70	89	65	75
25	78	60	66	92	84	86
26	76	62	67	93	66	77
27	75	58	64	97	66	80
28	61	60	61	97	91	93
29	61	60	60	96	93	95
30	61	60	60	98	94	96
31	---	---	---	---	---	---
MONTH	88	58	72	98	61	84

PUYALLUP RIVER BASIN

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PH, WATER, WHOLE, FIELD, STANDARD UNITS, AUGUST TO SEPTEMBER 2001

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
AUGUST			SEPTEMBER			
1	7.4	7.2	7.2	---	---	---
2	7.4	7.1	7.2	---	---	---
3	7.2	7.0	7.2	---	---	---
4	7.3	7.2	7.2	7.2	7.1	7.1
5	7.3	7.2	7.2	7.2	7.0	7.2
6	7.4	7.2	7.3	7.2	6.9	7.2
7	7.5	7.2	7.3	7.2	6.9	7.2
8	7.3	7.2	7.2	7.3	6.9	7.2
9	7.3	7.2	7.2	7.3	7.1	7.2
10	7.3	7.2	7.2	7.3	6.9	7.1
11	7.3	7.2	7.2	7.3	7.1	7.1
12	7.3	7.2	7.2	7.2	6.8	7.1
13	7.3	7.2	7.2	7.1	6.9	6.9
14	7.2	7.2	7.2	7.2	6.9	7.1
15	7.2	7.2	7.2	7.2	7.0	7.1
16	7.3	7.2	7.2	7.1	6.8	7.1
17	7.3	7.2	7.2	7.1	6.8	7.1
18	7.2	7.2	7.2	7.2	6.9	7.1
19	7.3	7.2	7.2	7.3	7.1	7.2
20	---	---	---	7.2	6.8	7.1
21	---	---	---	7.3	7.0	7.2
22	---	---	---	7.4	7.1	7.2
23	---	---	---	7.4	7.1	7.1
24	7.1	6.9	7.0	7.2	6.9	7.0
25	7.1	6.9	7.0	7.3	7.1	7.2
26	7.1	6.9	7.0	7.2	6.9	7.0
27	7.1	6.8	6.9	7.2	7.0	7.1
28	6.9	6.8	6.9	7.4	7.2	7.2
29	7.0	6.8	6.9	7.5	7.2	7.2
30	7.0	6.8	6.9	7.6	7.2	7.3
31	---	---	---	---	---	---
MAX	7.5	7.2	7.3	7.6	7.2	7.3
MIN	6.9	6.8	6.9	7.1	6.8	6.9

TEMPERATURE, WATER (DEG. C), YEAR AUGUST TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
AUGUST			SEPTEMBER			
1	16.9	12.8	14.8	---	---	---
2	19.0	14.6	16.6	---	---	---
3	17.0	14.6	15.9	---	---	---
4	17.1	15.4	16.4	16.2	13.5	15.1
5	17.1	14.1	15.6	16.2	13.0	14.8
6	18.8	15.6	16.8	15.9	12.9	14.5
7	19.6	14.3	16.9	16.1	12.3	14.4
8	19.7	13.9	16.9	17.0	12.4	15.0
9	20.3	14.6	17.6	16.7	12.3	14.6
10	20.4	14.8	17.9	16.2	12.2	14.5
11	20.0	14.8	17.8	16.9	12.5	14.8
12	20.3	14.8	17.8	16.5	12.8	14.9
13	19.9	15.3	17.9	16.9	13.2	15.5
14	19.0	14.8	17.0	18.0	13.4	15.7
15	18.0	14.6	16.4	18.0	13.6	15.8
16	17.2	14.7	15.8	17.1	13.6	15.1
17	17.1	14.4	15.6	15.5	12.8	13.9
18	17.0	14.4	15.7	15.6	11.9	13.6
19	17.9	13.5	15.6	15.3	12.2	13.7
20	---	---	---	15.7	11.1	13.8
21	---	---	---	15.2	12.1	13.2
22	---	---	---	16.1	12.0	13.9
23	---	---	---	16.8	13.0	14.8
24	17.1	13.5	15.6	16.1	13.4	15.1
25	17.3	12.5	15.7	14.6	13.6	14.0
26	17.6	13.1	16.1	15.3	12.4	14.0
27	17.7	14.0	16.7	14.7	10.4	13.0
28	18.0	16.7	17.4	13.3	9.7	11.4
29	18.2	16.6	17.3	13.2	10.4	11.8
30	18.1	16.8	17.4	12.9	10.8	11.8
31	---	---	---	---	---	---
MONTH	20.4	12.5	16.6	18.0	9.7	14.2

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OXYGEN DISSOLVED (MG/L), YEAR AUGUST TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
AUGUST			SEPTEMBER			
1	10.6	9.1	10.0	---	---	---
2	9.9	8.6	9.2	---	---	---
3	9.6	8.8	9.1	---	---	---
4	9.6	9.0	9.3	10.3	8.9	9.6
5	10.0	9.0	9.5	9.9	8.6	9.1
6	9.9	8.6	9.3	10.0	8.6	9.3
7	10.0	8.4	9.3	10.0	8.8	9.4
8	9.9	8.2	9.1	10.3	8.8	9.4
9	9.8	8.2	8.9	10.0	8.6	9.3
10	9.7	8.1	8.9	10.5	8.6	9.4
11	9.7	8.2	8.9	10.2	8.9	9.6
12	9.5	7.9	8.7	9.9	8.4	9.1
13	9.6	8.0	8.8	9.6	8.3	8.8
14	9.9	8.6	9.2	9.7	8.5	8.9
15	9.9	8.8	9.4	9.7	8.4	9.1
16	9.9	9.0	9.5	9.6	8.5	8.9
17	9.9	9.1	9.6	9.7	8.4	9.1
18	9.8	9.1	9.5	10.2	8.7	9.4
19	10.0	8.7	9.5	10.2	9.3	9.8
20	---	---	---	10.4	8.6	9.4
21	---	---	---	10.2	8.8	9.8
22	---	---	---	10.0	8.5	9.4
23	---	---	---	9.6	8.2	8.9
24	9.4	8.3	8.7	9.3	8.2	8.8
25	10.1	8.2	8.8	9.8	9.3	9.6
26	10.0	8.2	9.0	9.8	8.6	9.2
27	9.7	8.5	8.9	10.4	8.9	9.7
28	9.0	8.5	8.8	11.2	9.9	10.6
29	8.9	8.5	8.7	11.0	9.8	10.4
30	9.1	8.6	8.8	10.8	9.7	10.2
31	---	---	---	---	---	---
MONTH	10.6	7.9	9.1	11.2	8.2	9.4